No. 7900009

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pennsylvania Agricultural Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BENTGRASS

'Penneagle'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 20th *day of* November *in the year of our Lord one thousand nine hundred and* eighty.

PLANT VARIETY PROTECTION OFFICE · U.S. DEPARTMENT OF AGRICULTURE

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

FORM APPROVED
OMB NO. 40-R3822

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME	FOR OFFICIAL USE ONLY
PSU-PBCB	PENNEAGLE	PV NUMBER 7900009
2. KIND NAME: Creeping Bentgrass	3. GENUS AND SPECIES NAME: Agrostis palustris	FILING DATE 10-16-78 / TIME 4:30 (A.M.) P.M.
4. FAMILY NAME (BOTANICAL): Gramineae	5. DATE OF DETERMINATION: 1965	FEE RECEIVED $ $500.00 / $ 250.00 / DATE 10-16-78 / 10-6-80

6. NAME OF APPLICANT(S)	7. ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)	8. TELEPHONE AREA CODE AND NUMBER
Pennsylvania Agricultural Experiment Station	Rm 229 Agricultural Administration Bldg. University Park, PA 16802	Area Code (814) 865-5419

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (*Corporation, partnership, association, etc.*)	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION
Land Grant University		

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: B. R. Baumgardt 9018 11/13/79
Dr. ~~W. I. Thomas,~~ Assoc. Dean Research
Rm 229 Agricultural Administration Bldg.
University Park, PA 16802

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- ☐ 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- ☐ 13B. Exhibit B, Novelty Statement.
- ☐ 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- ☐ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* ☒ YES ☐ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?
☒ YES ☐ NO	☐ FOUNDATION ☐ REGISTERED ☒ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO *(If "Yes," give name of countries and dates.)*

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO *(If "Yes," give name of countries and dates.)*

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

10/10/78 (DATE) — W. I. Thomas (SIGNATURE OF APPLICANT)

(DATE) — (SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee ($250 filing fee and $250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

ORIGIN AND BREEDING HISTORY
Penneagle Creeping Bentgrass

Penneagle Creeping Bentgrass, Agrostis palustris, (experimental designation PSU-PBCB) was developed in its present form with the main breeding objectives as follows:

1. Broad genetic base, opposed to narrow line variety, for wide area of adaptation.
2. Propagation by seed with acceptable commercial seed production.
3. Minimal plant segregation, particularly under putting green use conditions.
4. High level putting green quality.
5. Vigor to compete favorably with annual bluegrass, Poa annua, invasion, but curtailed compared to Penncross to avoid excessive thatch, mat and grain buildup.
6. Favorable disease reaction.

Penneagle is a four-clone synthetic with the following origin and source of parental clones at the Turfgrass Research Center, Pennsylvania Agricultural Experiment Station:

No. 1:	3rd	generation	seedling	selection	from Washington bent (1938 source)
No. 2:	3rd	"	"	"	" Seaside (1930 source)
No. 3:	3rd	"	"	"	" Cocoos (1932 source)
No. 4:	2nd	"	"	"	" Washington (1933 source)

The above material was the product of an open pollinated crossing and selection program to develop vegetatively propagated bentgrasses for putting greens with emphasis on disease resistance.

This program was initiated in 1958 utilizing a pool of 156 vegetative bent lines, for which turf performance data was available for 3-15 years. From this group 21 were selected and vegetatively planted for seed production in an 18-replication open pollinated nursery.

Following 1959 and 1960 seed harvest 16 of the original 21 lines were planted for turf testing. Replicated trials were maintained at 3/16- and 1/2-inch cutting height and two nitrogen levels to screen out excessive vigor and disease susceptible types. Based on a three-year screening, 7 lines showed promise compared to Penncross and Seaside bents, the commercial checks.

The seven lines were placed in 3 to 5 clone combinations in University Park, Pa. and several Oregon locations based on previous anthesis data. Since Penna. anthesis data did not correlate with Oregon, most subsequent seed increase and crossing work was carried out in Oregon in cooperation with Roselawn Seed Co., Rudy-Patrick Seed Co., and Bohnert Farms.

Component and polycross lines were turf tested at University Park and in cooperation with golf course superintendents in Penna., Ohio, Illinois and North Carolina. Based on very favorable turf performance, a four clone line PBCB, was planted in the 1965 Bent Evaluation Test, along with the more narrow lines F and J. One parent in the PBCB was later changed based on multiple location and years anthesis data in Oregon.

The variety is "relatively" uniform for a polycross consisting of four parental clones as expressed in flowering head type. Heads are predominantly red (80%) to a dark brown (20%), and are highly consistent for the two generations of

reproduction by seed - Breeders and Certified. This fact is illustrated in head type of four parents (Figure 1), first reproductive generation for Breeders Seed (Figure 2), and second reproductive generation for Certified Seed (Figure 3A). Comparative head types in field stands in the same area, and on the same date are shown for Seaside (Figure 3B), and Penncross (Figure 3c).

Variants produced during the second generation consist of less than 0.1% plants with head types lacking red or dark brown panicle pigmentation. Balanced uniformity of plant types for vigor is confirmed by lack of major segregation in putting green turf, the main acceptance test of a commercial seed propagated bentgrass cultivar.

EXHIBIT 13B

Revised July 1980

DATA INDICATIVE OF NOVELTY
Penneagle Creeping Bentgrass

Penneagle Creeping Bentgrass is an improved variety of grass developed specifically for use on golf course putting greens and related areas such as golf tees and fair-ways. Its novelty and especially its performance for designated uses have been documented in a series of replicated experiments and testing during its development over a period of nearly 20 years.

Current commercial creeping bentgrass cultivars propagated by seed consist of Penncross, Seaside, Prominent and Emerald. Penneagle has been demonstrated to be a distinct and novel cultivar, significantly differing from each of the other current cultivars in such characters as maturity, floral morphology, texture, turf quality as a close-cut putting green turf, and disease resistance.

Penncross most closely resembles Penneagle in turfgrass performance characters, but differs in maturity and floral morphology.

Table 2. Bentgrass Maturity Characteristics. Oregon (Revised and updated)

	1st Heading			1st Anthesis			50% Athhesis		
Cultivar	1978	1979	1980	1978	1979	1980	1978	1979	1980
Penneagle	May 30	May 29	May 31	June 10	June 12	June 14	June 21	June 21	June 22
Penncross	June 14	June 12	June 17	June 24	June 22	June 25	July 4	June 28	July 8
Seaside	June 16	June 10	June 20	June 27	June 20	June 28	Jule 6	June 28	July 10
Prominent	June 15	June 11	June 18	June 26	June 22	June 28	July 7	July 2	July 11
Emerald			June 14			June 23			July 8

March 14, 1979

U.S. Department of Agriculture
Agricultural Marketing Service
Livestock, Poultry, Grain & Seed Division
Beltsville, Maryland 20705

Exhibit 13C

OBJECTIVE DESCRIPTION OF VARIETY
BENTGRASS (*Agrostis* spp.)

Name of Applicant(s)	Variety Name or Temporary Designation
Pennsylvania Agricultural Experiment Station	PENNEAGLE
Address (Street and No. or R.F.D. No, City, & ZIP Code)	PSU-PBCB (Temporary)
Dr. B. R. Baumgardt	Penneagle Creeping Bentgrass
Associate Director	FOR OFFICIAL USE ONLY
229 Agricultural Administration Bldg	PVPO Number
University Park, PA 16802	79 00009

Place numbers in the boxes (e.g. [0][8][9]) for the characters that best describe typical plants of this variety. The symbol ▲ indicates decimal.

COMPARISON VARIETIES FOR USE BELOW

1= Astoria 2= Exeter 3= Highland 4= Seaside 5= Penncross 6= Kingstown
7= Astra 8= Other Prominent

1. SPECIES:

[2] 1= Colonial (browntop) *A. tenuis* 2= Creeping *A. stolonifera* (*A.palustris*)
3= Velvet *A. canina* ssp. *canina* 4= Brown bent *A. canina* ssp. *montana*
5= Red top *A. gigantea*

2. ADAPTATION: (0= Not Tested, 1= Not Adapted, 2= Adapted)

[2] Northeast [2] Southeast [2] North Central [2] Pacific N. W.
[2] Other (Specify) Southwest

3. MATURITY (At first anthesis): Use comparison varieties

[1][2] Days earlier than [5], Maturity same as [ ], [ ][ ] Days later than [ ]

4. HEIGHT (Average of longest 10 shoots from soil surface to top of head):

[ ][8][2] Cm Height (at maturity)

[ ][4] Cm Shorter than [4]
Height same as [ ]
[ ][5] Cm Taller than [5]

} Comparison Variety

5. GROWTH HABIT:

[ ][ ][ ] % Prostrate [1][0][0] % Decumbent [ ][ ][ ] % Geniculate [ ][ ][ ] % Erect

6. VEGETATIVE REPRODUCTION:

[ ] Rhizomes 1= Absent 2= Present [2] Stolons 1= Absent 2= Present

[ ][ ][ ] % Rhizomes [1][0][0] % Stolons

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7. LEAF BLADE:

[3] Color: 1= Yellowish Green (Cohansey) 2= Light Green (Washington)
3= Green (Exeter) 4= Dark Green (Kingstown, Tracenta)
5= Bluish Green (Highland) 6= Other (Specify) _____

[3] Texture: (fineness)
1= Very fine (Kingstown) 2= Fine (Exeter)
3= Medium fine (Astoria) 4= Medium (Seaside)
5= Medium coarse (Virginia) 6= Coarse (Vermont)

[ ][ ][ ][ ] Stomatal density upper leaf surface (Number/mm^2)

Lower Surface: [ ][ ][ ] % Smooth [ ][ ][ ] % Rough

Upper Surface: [ ][ ][ ] % Smooth [ ][ ][ ] % Rough

Margins: [ ][ ][ ] % Smooth [ ][ ][ ] % Rough

[1][9] Mm Width (Average of 10) [0][3] Mm Narrower than [4] Comparison Variety
Width same as [ ]
[ ][ ] Mm Wider than [ ]

[4][9] Mm Width (Flag leaves) [6][1] Cm Length (Flag leaves)

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8. LEAF SHEATH:

[1] Anthocyanin: 1= Absent 2= Present [ ][ ][ ] % Red sheaths

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9. LIGULE (Lower and middle leaves):

Shape at Apex: [ ][ ][ ] % Acute [1][0][0] % Rounded [ ][ ][ ] % Truncate
[ ][ ][ ] % Other (Specify) _____

Pubescence: [1][0][0] % Glabrous [ ][ ][ ] % Pubescent

Margins: [1][0][0] % Entire [ ][ ][ ] % Toothed
[ ][ ][ ] % Other (Specify) _____

[0][6] Mm Length

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10. LEMMA:

Shape: [ ] % Lanceolate [100] % Ovate [ ] % Obovate

[ ] % Elliptic [ ] % Oblong [ ] % Other (Specify) _____

[04] Mm Width [15] Mm Length (exclusive of awn)

Color: [ ] % Buff [100] % Silvery [ ] % Other (Specify) _____

Surface: [100] % Glossy [ ] % Dull

Texture: [100] % Smooth [ ] % Punctate

Pubescence: [99] % Glabrous [1] % Sparse [ ] % Copious

Basal Hairs: [70] % Absent [30] % Few [ ] % Many

[100] % Short [ ] % Long

[ ] % Appressed [100] % Ascending [ ] % Spreading

Awns: [100] % Absent [ ] % Few [ ] % Many

[ ] % Awn-pointed [ ] % Short [ ] % Long

[ ] % Straight [ ] % Geniculate

Awn Insertion on Lemma:

[ ] % Basal [ ] % Middle [ ] % Distal

---

11. PANICLE:

Type (in anthesis): [100] % Open [ ] % Compact

Anthocyanin: [20] % Absent [80] % Present

Branches in Anthesis: [ ] % Appressed [100] % Ascending [ ] % Spreading

Branches in Fruit: [80] % Appressed [20] % Ascending [ ] % Spreading

Branch Surface: [100] % Smooth [ ] % Scabrous

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12. SEED:

0.[09] Grams per 1000 seed

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13. SPRING GREEN UP:

[2] 1= Early (Exeter) 2= Medium (Astoria) 3= Late (Kingstown)

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14. ENVIRONMENTAL RESISTANCE: (0= Not tested, 1= Susceptible 2= Resistant)

[2] Cold [2] Heat [1] Drought [2] Shade [2] Other (Specify) Saline Soil

15. DISEASE RESISTANCE (0= Not tested 1= Susceptible 2= Resistant):

[ ] Red Leaf Spot - Drechslera erythrospila
[2] Helminthosporium Leaf Spot (Bipolaris sorokiniana)
[2] Melting Out - Drechslera poae (Helminthosporium vagans)
[2] Dollar Spot -(Sclerotinia homoeocarpa)
[0] Pythium Blight - (P. aphanidermatum)
[1] Pythium Blight (P. ultimum)
[1] Fusarium Blight (F. roseum)
[2] Fusarium Blight (F. tricinctum)
[2] Fusarium Patch (Pink Snow Mold) (F. nivale)
[2] Powdery Mildew (Erysiphe graminis)
[0] Ophiobolus Patch (O. graminis)
[2] Stripe Smut (Ustilago striiformis)
[0] Copper Spot (Gloeocercospora sorghi)
[2] Typhula Blight (Snow Scald) (T. incarnata)
[2] Red Thread (Corticium fuciforme)
[2] Brown Patch (Rhizoctonia solani)
[2] Stem Rust (Puccinia graminis)
[2] Crown Rust (P. coronata)
[2] Leaf Rust (P. poae-nemoralis)
[ ] Other _____

16. INSECT RESISTANCE (0= Not tested, 1= Susceptible, 2= Resistant):

[0] European Chafer (Amphimallon solstitialis)
[0] Garden Chafer (Phyllopertha horticola)
[0] Chinch Bug (Blissus insularis)
[0] Webworm (Crambus spp.)
[0] Armyworm (Cutworm) (Pseudaletia unipuncta)
[ ] Other _____

17. GIVE VARIETY(S) THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY: For the following characteristics indicate degree of resemblance (D.R.) with one of the following numbers: 1= Submitted variety is less than, lighter, or inferior to similar variety, 2= Same as, 3= More than, darker or superior, etc.

Character	Similar Variety	D.R.	Character	Similar Variety	D.R.
Growth Habit	Penncross	2	Leaf Color	Penncross	2
Awn Length			Panicle Type	Seaside	2
Seed Weight	Penncross	2	Turf Fineness	Penncross	3
Cold Resistance	Penncross	2	Heat Resistance	Penncross	2
Drought Resistance			Shade Resistance	Penncross	3
Brown Patch	Penncross	2			
Red leafspot	Penncross	3			

18. COMMENTS:

Regarding No. 15 above: category 2 (resistant) used for up to moderate suscepible, No. 1 (susceptible) used for more than moderately resistant.

USDA

United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

January 21, 1998

Marian R. Minnifield
Secretary
Plant Variety Protection Office
NAL Building, Room 500
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351

Subj: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number		PVP Number	EXPIRED
107423	01	7900099	01/02/1997
107424	01	7800077	01/02/1997
107425	01	7900062	01/02/1997
107428	01	7900095	01/02/1997
107429	01	7700092	01/02/1997
108309	01	7900116	01/29/1997
108310	01	7900117	01/29/1997
108311	01	7900087	01/29/1997
108312	01	7800080	01/29/1997
108313	01	7800020	01/29/1997
109381	01	7900113	03/27/1997
109382	01	7900030	03/27/1997
109383	01	7900102	03/27/1997
109384	01	7900063	03/11/1997
109386	01	7300068	03/11/1997
109387	01	7900120	02/26/1997
109388	01	7700028	02/26/1997
109389	01	7700112	02/26/1997
109390	01	7900040	03/11/1997
109791	01	7800071	02/26/1997
110210	01	8000058	05/15/1997
110211	01	7800103	05/01/1997
110212	02	8000001	05/01/1997
110213	01	7800001	05/01/1997

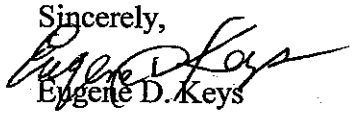
ars

Northern Plains Area • National Seed Storage Laboratory
1111 South Mason Street • Ft. Collins, CO 80521-4500
Voice: 970 495-3200 • Fax: 970 221-1427

110214	02	7200105	04/24/0197
110215	01	8000022	04/24/1997
110216	01	7900060	05/01/1997
110217	01	7900084	05/01/1997
110218	01	8000071	05/15/1997
110219	01	7900101	05/01/1997
110220	01	8000043	05/15/1997
110221	01	8000015	05/15/1997
110222	01	7900111	05/15/1997
110223	01	7900110	05/15/1997
110227	01	7900106	05/15/1997
110228	01	7900071	04/24/1997
110229	01	7900100	05/01/1997
110230	01	7900075	05/01/1997
110231	01	7900108	04/24/1997
110236	01	8000053	05/29/1997
110239	01	7900098	05/29/1997
110240	01	7900006	05/29/1997
110263	01	7900042	06/05/1997
110264	01	8000048	06/05/1997
110265	01	8000063	06/05/1997
110266	01	8000012	06/05/1997
110267	01	8000049	06/05/1997
110268	01	7800092	06/05/1997
112329	01	8000045	06/19/1997
112330	01	7900088	07/10/1997
112331	01	8000044	07/10/1997
112332	01	7800079	06/19/1997
112333	01	7900074	06/26/1997
112334	01	8000061	06/19/1997
112335	01	7700016	07/10/1997
112336	01	7700017	07/10/1997
112337	01	7900105	06/26/1997
112338	01	7900089	06/19/1997
112339	01	7900072	06/19/1997
112342	01	7900090	06/26/1997
112343	01	7900064	07/10/1997
112344	01	8000072	06/19/1997
112345	01	8000009	07/31/1997
112346	01	7800099	07/31/1997
112347	01	8000040	07/31/1997
112348	01	8000039	07/31/1997
112349	01	8000041	07/31/1997
112350	01	7900080	07/31/1997
112351	01	8000006	07/31/1997

112352	01	8000027	07/31/1997
112353	01	8000024	07/31/1997
112354	01	8000076	07/31/1997
112355	01	8000025	07/31/1997
112356	01	8000062	07/31/1997
112357	01	8000102	07/31/1997
112360	01	8000023	07/31/1997
112361	01	7900078	07/31/1997
112362	01	8000093	07/31/1997
112363	01	8000020	07/31/1997
112364	01	7800019	07/31/1997
112365	01	7900079	07/31/1997
113482	01	8000118	09/11/1997
113483	01	8000114	09/11/1997
113484	01	8000119	09/11/1997
113485	01	8000113	09/11/1997
113486	01	8000086	09/11/1997
113487	01	7900070	09/11/1997
113488	01	8000033	09/11/1997
113489	01	8000034	09/11/1997
113490	01	7900022	09/11/1997
113491	01	8000090	09/11/1997
113492	01	8000105	09/11/1997
113493	01	7900056	09/11/1997
113494	01	7900057	09/11/1997
113495	01	8000096	09/11/1997
113498	01	8000099	09/11/1997
113499	02	7900082	09/11/1997
113500	01	7500083	09/11/1997
113501	01	8000013	09/11/1997
113502	01	7900083	09/11/1997
113503	01	7300090	09/11/1997
114293	01	8000130	10/16/1997
114597	01	7900104	10/16/1997
114598	01	8000077	10/16/1997
114599	01	8000111	10/16/1997
114600	01	8000011	10/16/1997
114601	01	8000134	10/16/1997
169608	01	8100103	07/15/1997

Sincerely,



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